

IT Initiative Supplement

April 29, 2010

I. Project Description

Project Title: Expanded CVISN (Commercial Vehicles Information Systems and Networks)

Brief Description of the Project Title: FMCSA (Federal Motor Carrier Safety Administration) launched the Expanded CVISN deployment initiative as follow-on to the Core CVISN program in 2005. The goals of Expanded CVISN are to enhance the safety, security, and productivity of commercial vehicle operations and to improve access to and the quality of information in regards to commercial drivers, carriers, vehicles, chassis, cargo, inspections, crashes, compliance reviews, and citations for authorized public and private sector users.

During the 2013 biennium, the Montana Department of Transportation has submitted an EPP proposal to complete 3 Expanded CVISN projects; IFTA and IRP system automated payment capability using all forms of tender and weigh station automated vehicle screening at 2 weigh station facilities in SFY2012, and virtual weigh station automated vehicle screening at existing WIM (Weigh-in-Motion) sites in SFY2013.

Statewide Priority:

Agency Priority: 1

Estimated Completion Date: 2013

IT Project Biennium: 2013

Request Number: 182

Version: 2013-5401-A61

Agency Number: 5401

Agency Name: Montana Department of Transportation

Program Number: 22

Program Name: Motor Carrier Services Division

A. Type of Project (check all that apply)

Enhancement Yes

Replacement

New Yes

O&M

B. Type of System (check all that apply)

Mid-Tier Yes

Mainframe

GIS

Web	Yes
Network	Yes
Desktop	Yes

II. Narrative

C. Executive Summary

Project Purpose and Objectives:

The State of Montana will work to implement expanded CVISN capabilities in to enhance the productivity of commercial vehicle operations and the driver and vehicle information sharing program areas.

The objectives of Expanded CVISN are to enhance the safety, security, and productivity of commercial vehicle operations and to improve access to and the quality of information in regards to commercial drivers, carriers, vehicles, chassis, cargo, inspections, crashes, compliance reviews, and citations for authorized public and private sector users. During the 2013 biennium, the Montana Department of Transportation has submitted an EPP proposal to complete 3 Expanded CVISN projects; IFTA and IRP system automated payment capability using all forms of tender, weigh station automated vehicle screening at 2 weigh station facilities, and virtual weigh station automated vehicle screening at existing WIM (Weigh-in-Motion) sites. Anticipated funding is estimated for each year below. UCR (Unified Carrier Registration) funding will be used to match the federal E-CVISN funding. Match requirement is 50% state funds and 50% federal funds. Unified Carrier Registration (UCR) funds will be used for systems maintenance

Technical Implementation Approach:

MDT would provide project management support and consultants would accomplish the technical components of the projects.

Project Schedule and Milestones:

IFTA and IRP system automated payment capability using all forms of tender

milestone description	date
Development and deployment schedule	July 2011
Implement project identified in the implementation plan using a phase approach.	Ongoing until June 2012

Weigh Station automated vehicle screening at 2 weigh station facilities

milestone description	Date
Development and deployment schedule	July 2011
Implement project identified in the implementation plan using a phase approach.	Ongoing until June 2012

Virtual Weigh Station automated vehicle screening at existing WIM sites

milestone description	date
Development and deployment schedule	July 2012
Implement project identified in the implementation plan using a phase approach.	Ongoing until June 2013

D. Business and IT Problems Addressed

The IFTA and IRP system automated payment capability would address the Expanded CVISN objective of providing customers and MDT staff with the ability to use all payment types for issuing motor carrier fuel licenses and vehicle registration. The weigh station automated vehicle screening and virtual weigh station automated vehicle screening would both provide roadside information to inspectors to identify commercial vehicles and drivers with a high-risk of safety violations or do not have the appropriate license or registration credentials.

E. Alternative(s)

Alternatives Considered: The three projects are an enhancement or new projects; the alternative is to not implement these projects.

Rationale for Selection of Particular Alternative: Improve safety inspector's and enforcement officer's ability to identify high safety risk vehicles and drivers for inspection selection.

Use of these systems will also allow officers to determine whether a vehicle and its associated company have the required credentials to operate in Montana, without stopping the vehicle.

F. Narrative Detail

IFTA and IRP electronic payments will be supported for IFTA and IRP transactions. Electronic payment functionality will be provided by Montana Interactive, the State's de facto electronic payment provider. This functionality will include an online "shopping cart" for purchase of multiple credentials/permits as a single transaction during check-out.

Weigh stations, automated vehicle screening at 2 weigh station facilities will deploy cameras, infrared sensors and communications equipment, IT hardware, cabinets, etc. for screening trucks approaching the weigh scales for safety, registration and licensing, wheel brake adjustments thereby eliminating the screening task from officers and inspectors. Additionally these deployments will automate the collection of truck weigh data collection, currently performed manually by officers.

Virtual Weigh stations, automated vehicle screening at existing WIM (Weigh-in-Motion) sites. Deploy cameras and communications equipment to screen overweight trucks remotely, communicate the potential violation to a mobile officer to enforce Montana weight and safety laws.

III. Costs

G. Estimated Cost of Project:

1. Personnel Services – IT Staff:	\$57,595.75
2. Personnel Services – Non IT Staff:	\$57,595.75
3. Contracted Services:	\$888,981.98
4. ITSD Services:	\$13,445.00
5. Hardware:	\$806,700.00
6. Software:	\$47,057.50
7. Telecommunications:	\$6,722.50
8. Maintenance:	\$396,162.00
9. Project Management:	\$216,029.00
10. IV&V	
11. Contingency:	
12. Training:	\$66,162.52
13. Other:	
Total Estimated Costs:	\$2,556,452.00
Total Funding:	\$2,556,452.00

IV. Funding

H. Funding

- 1. Fund:** State UCR Funds; and, Federal ECVISN Grant
- 2. Amount:** \$1,476,307 (UCR); and, \$1,080,145 (ECVISN)
- 3. Total Costs:** \$2,556,452

Cash/Bonded:

Bill Number:

V. Cost upon Completion

1. Operating Costs upon Completion

FTE:

Personal Services Costs:

Operating Costs:

Maintenance Expenses: **\$210,581**

Total Estimated Costs: **\$210,581**

2. Funding Recap

Fund Type: State UCR Funds

Amount: **\$210,581**

Total Funding: **\$210,581**

V. Risk Assessment

A. Current IT Infrastructure Risks

1. Current application 10+ years old? _No_
Date of last major upgrade?
2. Current application is based on old technology? _ No _
If yes, what is the current hardware platform, operating system, and programming languages used to support the application?
3. Is the agency not capable of maintaining the current application with internal technical staff? _Yes_
If yes, who supports the application today? ACS _Affiliated Computer Systems
4. Other IT infrastructure risks? __No_
If yes, provide further detail.

B. Current Business Risks

1. What are the risks to the state if the project is not adopted? Increased safety risks on Montana Highways
2. Does the current application meet current business requirements? _Yes_
If “no”, what specific business functions does the application lack?

C. Project Risk Assessment

1. Describe any major obstacles to successful implementation and discuss how those obstacles will be mitigated.

Table H Risk Assessment

Description	Severity (H/M/L)	Probability of Occurrence (%)	Estimated Cost	Mitigation Strategy
Meeting Federal Requirements	L	5%	\$1,476,307 (UCR), \$1,080,145 (ECVISN), Total = \$2,556,452	Assure adherence to the federally approved E-CVISN plan and required system architecture.

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